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TRANSPORTATION PRINCIPAL ENGINEER

Connecticut Department of Transportation
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PASS

NOTES

THE 4 CHORD TRUSS CANTILEVER SIGN STRUCTURE, INCLUDING THE ANCHORAGE TO THE FOUNDATION AND THE HARDWARE AND STRUCTURAL MEMBERS REQUIRED TO SUPPORT THE TRAFFIC APPURTENANCES, SHALL BE DESIGNED, FABRICATED, ERECTED, ASSEMBLED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "4 CHORD TRUSS CANTILEVER SIGN STRUCTURE".

THE 4 CHORD TRUSS CANTILEVER SIGN STRUCTURE SHALL BE COMPOSED OF A 4 CHORD TRUSS HORIZONTAL OVERHEAD SPAN MEMBER SUPPORTED ON A SINGLE LINEAR TUBULAR POLE MEMBER.

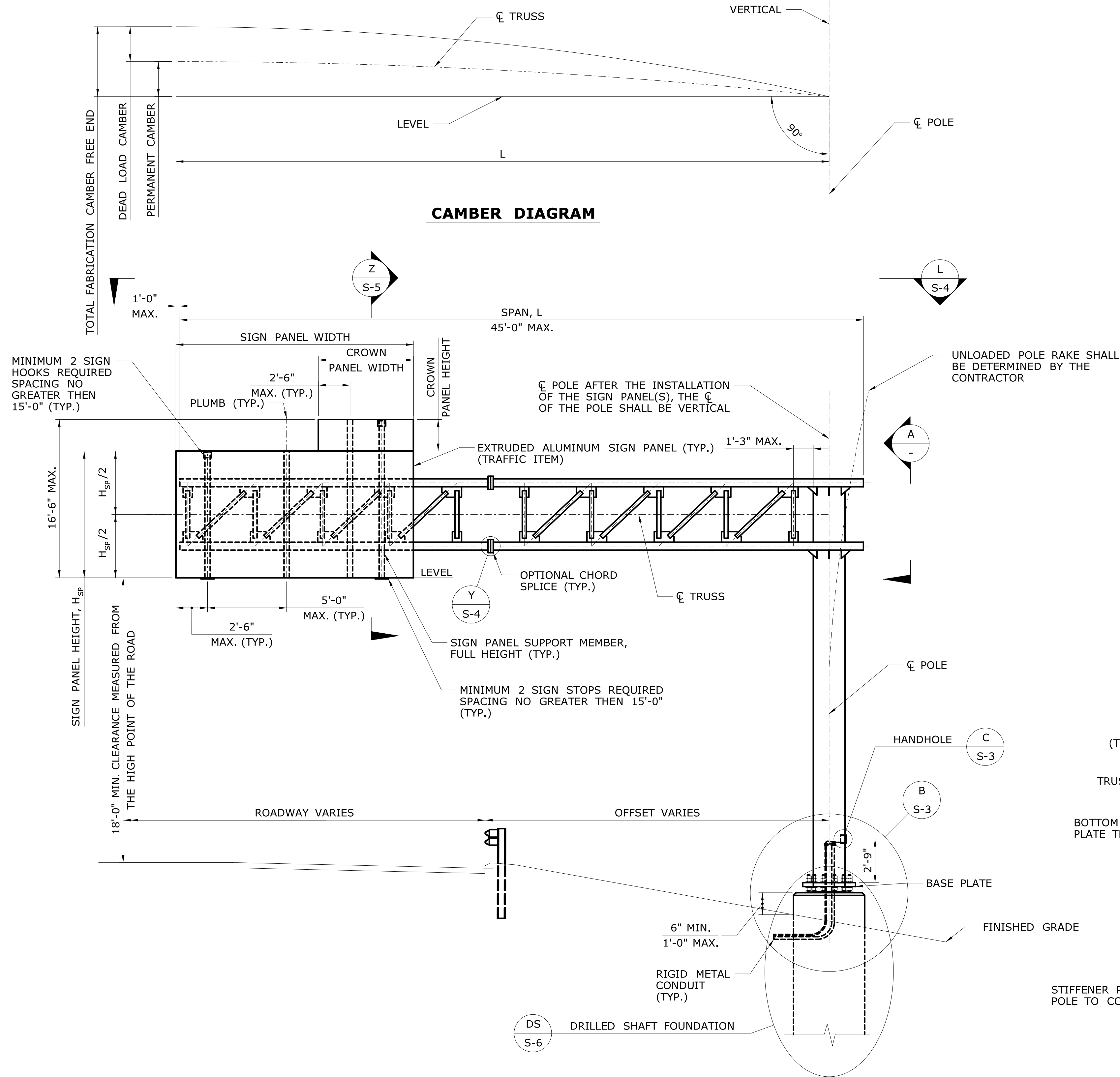
THE DETAILS PRESENTED AND REFERRED TO ON THIS SHEET REPRESENT CONCEPTUAL DETAILS OF A SIGN SUPPORT CONSISTENT WITH THE REQUIREMENTS IN THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL DETAILS AND DIMENSIONS.

THE APPROXIMATE DIMENSIONS OF THE HORIZONTAL TRUSS AND THE POLE HEIGHTS ARE SHOWN IN PLAN AND ELEVATION ON THE TRAFFIC SHEETS. THE ACTUAL SIGN SUPPORT DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON A THE HORIZONTAL AND VERTICAL CLEARANCES SHOWN ON THE TRAFFIC SHEETS, A FIELD SURVEY OF THE FINISHED GRADE AT THE SITE, THE ELEVATION OF THE TOP OF THE FINISHED FOUNDATION, THE LOCATIONS OF OVERHEAD AND SUBSURFACE UTILITIES, THE LOCATION OF THE DRAINAGE FACILITIES AND NOISE BARRIER WALL LOCATIONS.

THE SIGN PANELS, INCLUDING CROWN PANELS AS APPLICABLE, SHALL BE LOCATED ON THE HORIZONTAL TRUSS BASED ON THE DIMENSIONS SHOWN ON THE TRAFFIC SHEETS AND THE ACTUAL SIGN SUPPORT DIMENSIONS. THE SIGN PANELS SHALL BE INSTALLED SYMMETRICALLY ABOUT THE CENTERLINE OF THE TRUSS. THE NUMBER AND SPACING OF PANEL SUPPORT MEMBERS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE SPACING OF THE SIGN AND CROWN PANEL AND THE SUPPORT MEMBERS. THE SPACING OF PARAMETER SIGN PANELS SHALL BE SUPPORTED BY NO LESS THAN 3 SUPPORT MEMBERS. CROWN PANELS SHALL BE SUPPORTED BY NO LESS THAN 2 SUPPORT MEMBERS.

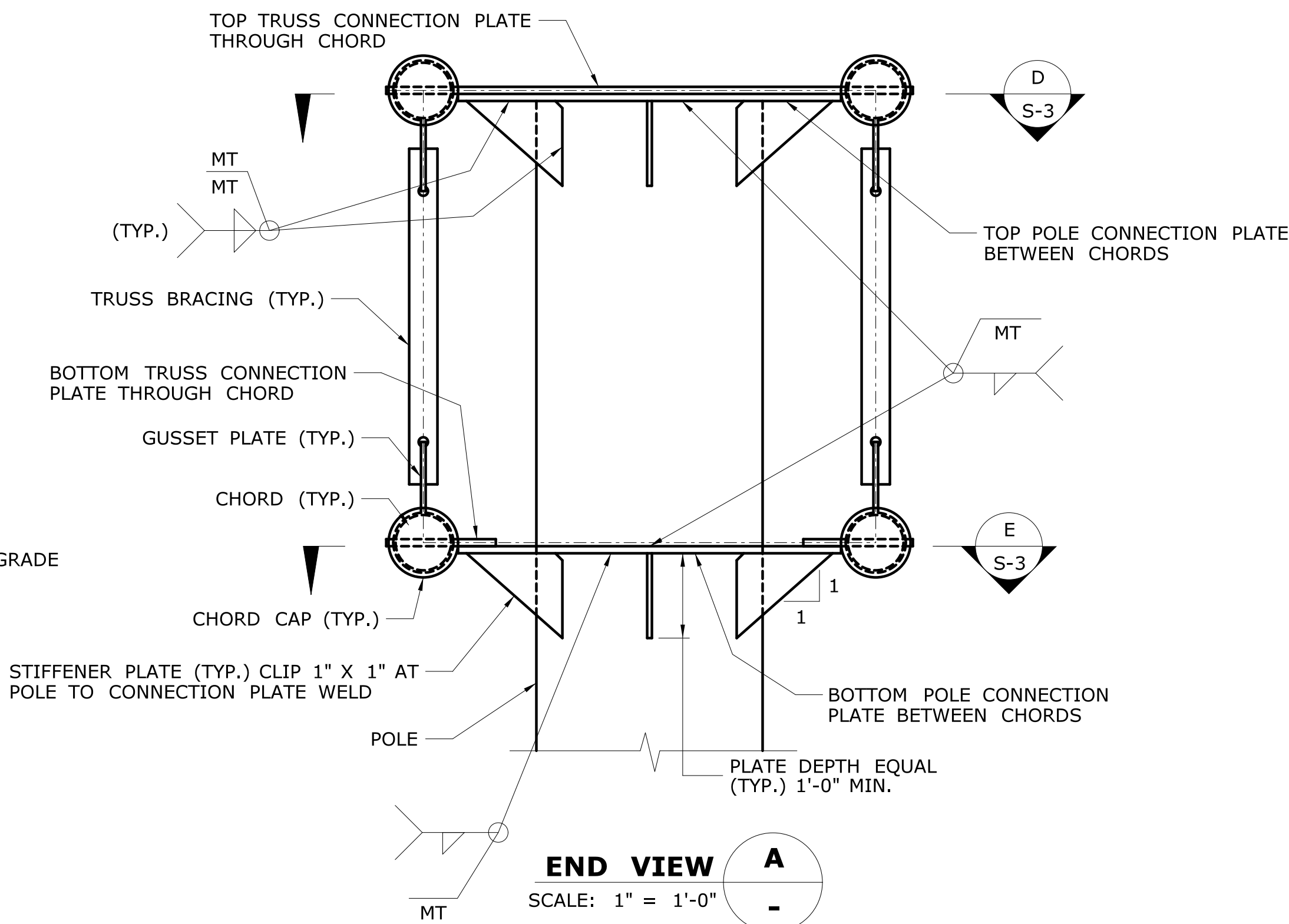
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FIT OF THE SIGN SUPPORT STRUCTURES ON THE CONSTRUCTED FOUNDATIONS. PRIOR TO VERIFICATION, THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY ALL SIGN SUPPORT DIMENSIONS DEPENDANT UPON THE CONSTRUCTED FOUNDATIONS. THE OVERHEAD MEMBER SHALL BE TEMPORARILY SUPPORTED, IN SUCH A MANNER AS TO PREVENT THE COLLAPSE OF THE SIGN CONTRACT, WHILE THE HIGH STRENGTH BOLTS ARE INSTALLED AND TENSIONED. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS ERECTED.



THE COST OF THE TUBULAR STEEL MEMBERS, STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS, HIGH-STRENGTH BOLTS AND ANCHORAGE MATERIALS, INCLUDING THE DESIGN, FABRICATION, COATING AND ERECTION, SHALL BE PAID FOR UNDER THE ITEM "4 CHORD TRUSS CANTILEVER SIGN STRUCTURE". THE COST OF FOUNDATION EXCAVATION, REINFORCEMENT AND CONCRETE, INCLUDING THE DESIGN AND FABRICATION, SHALL BE PAID FOR UNDER THE ITEM "DRILLED SHAFT TRAFFIC STRUCTURE FOUNDATION".

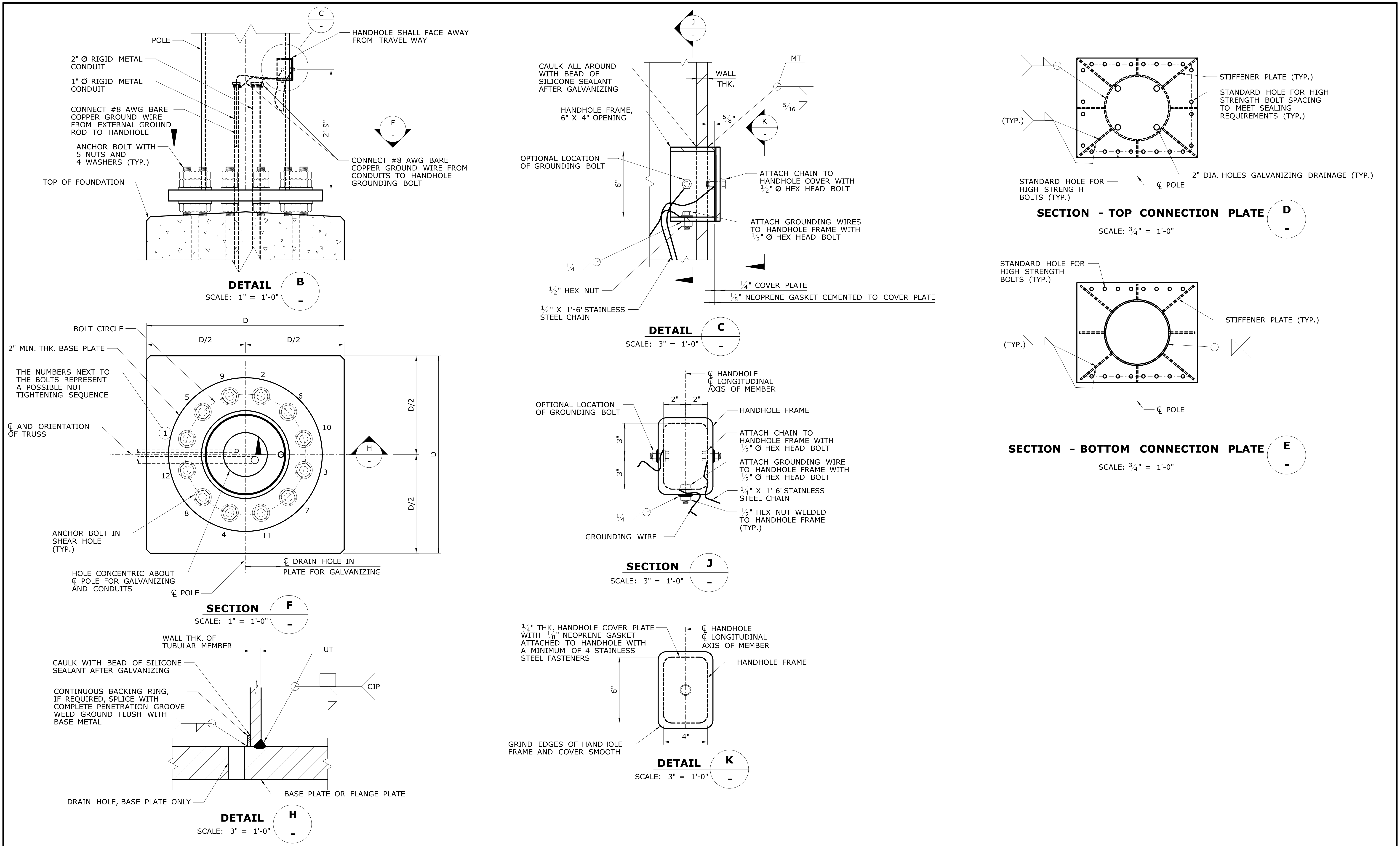


ELEVATION

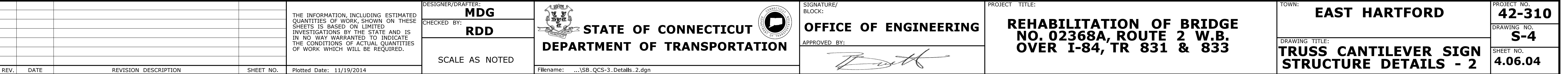
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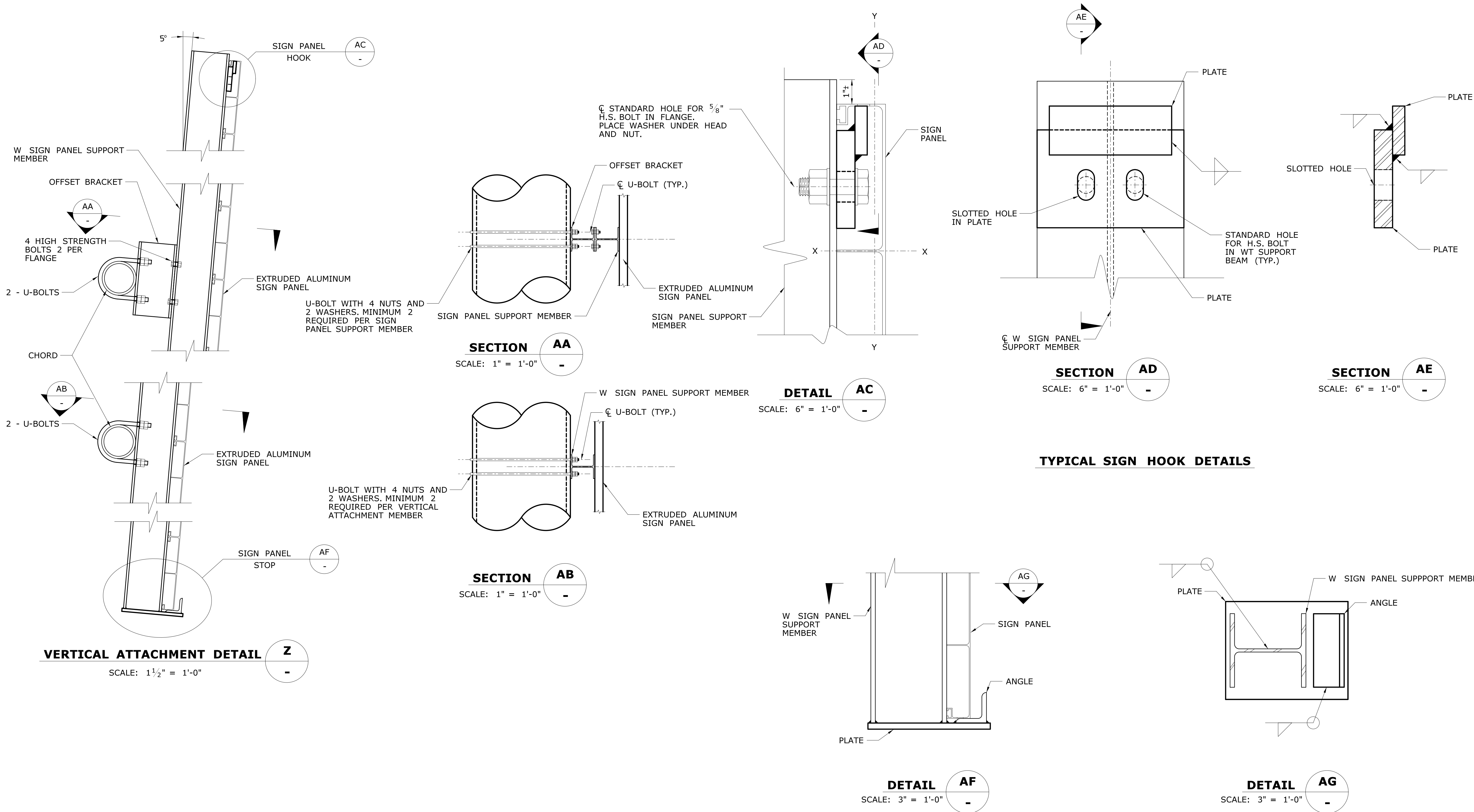




				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MDG CHECKED BY: RDD SCALE AS NOTED		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: 		PROJECT TITLE: REHABILITATION OF BRIDGE NO. 02368A, ROUTE 2 W.B. OVER I-84, TR 831 & 833		TOWN: EAST HARTFORD		PROJECT NO. 42-310		
														DRAWING NO. S-2				
														DRAWING TITLE: 4 CHORD CANTILEVER TRUSS SIGN STRUCTURE		SHEET NO. 4.06.02		
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 11/19/2014				Filename: ...\\SB_QCS-1. Elevation.dgn									

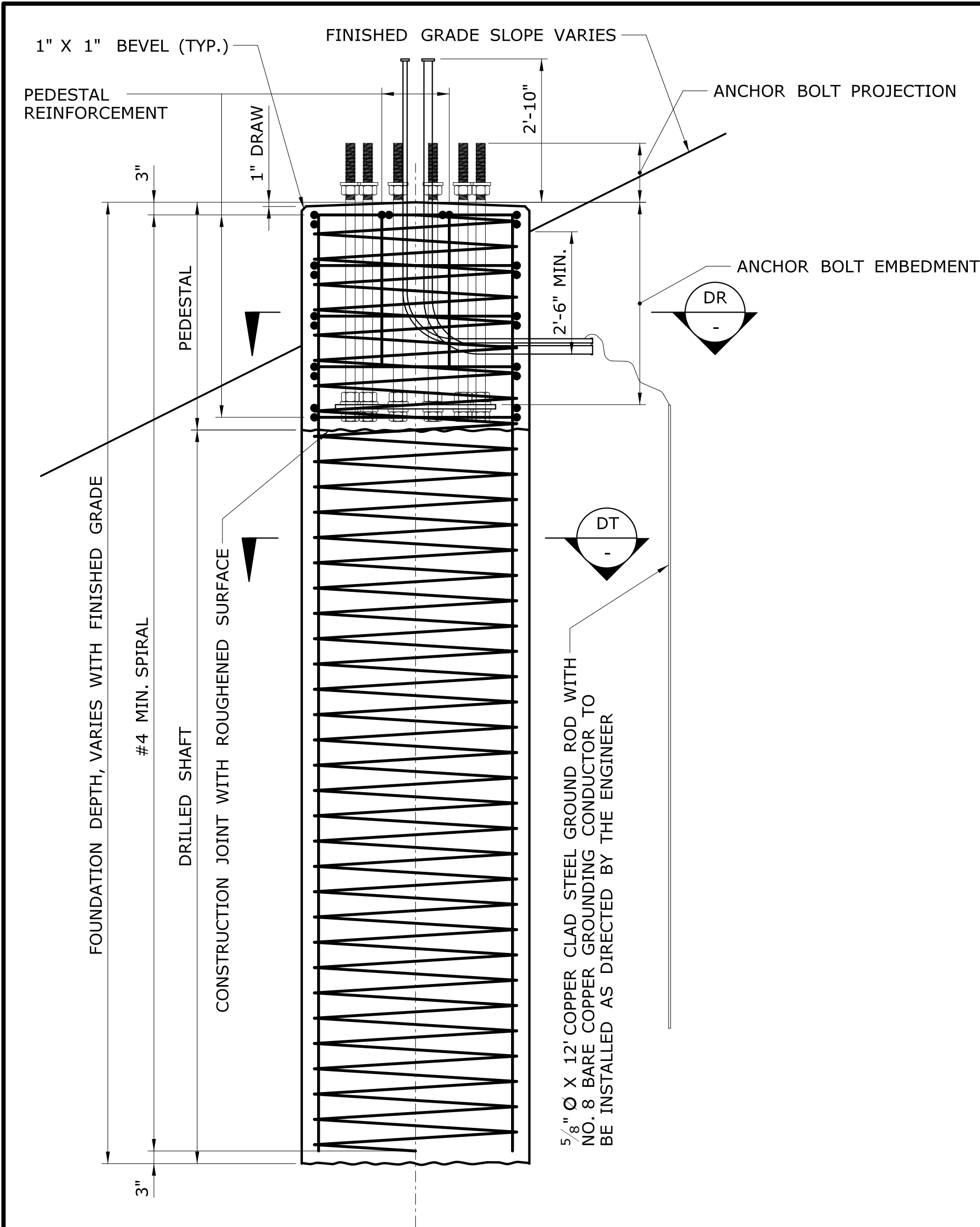


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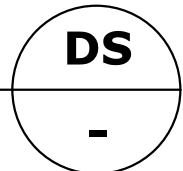




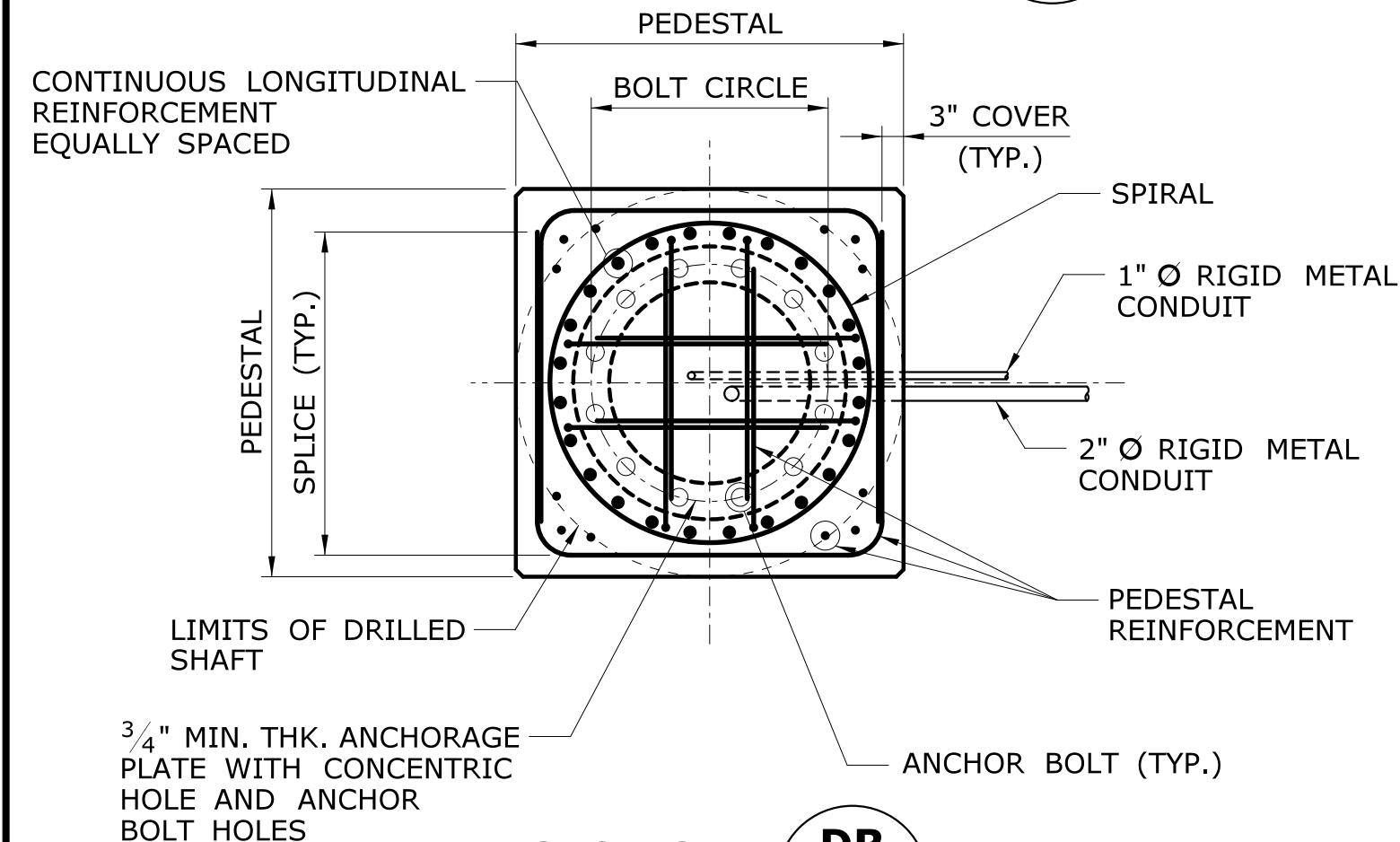
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						CHECKED BY: RDD		APPROVED BY: 		DRAWING NO. S-5	SHEET NO. 4.06.05
				SCALE AS NOTED		Plotted Date: 11/19/2014		Filename: ...\\SB-QCS-4-Details-3.dgn		DRAWING TITLE: TRUSS CANTILEVER SIGN STRUCTURE DETAILS - 3	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.								



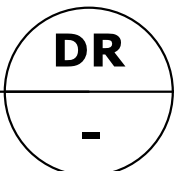
ELEVATION VIEW



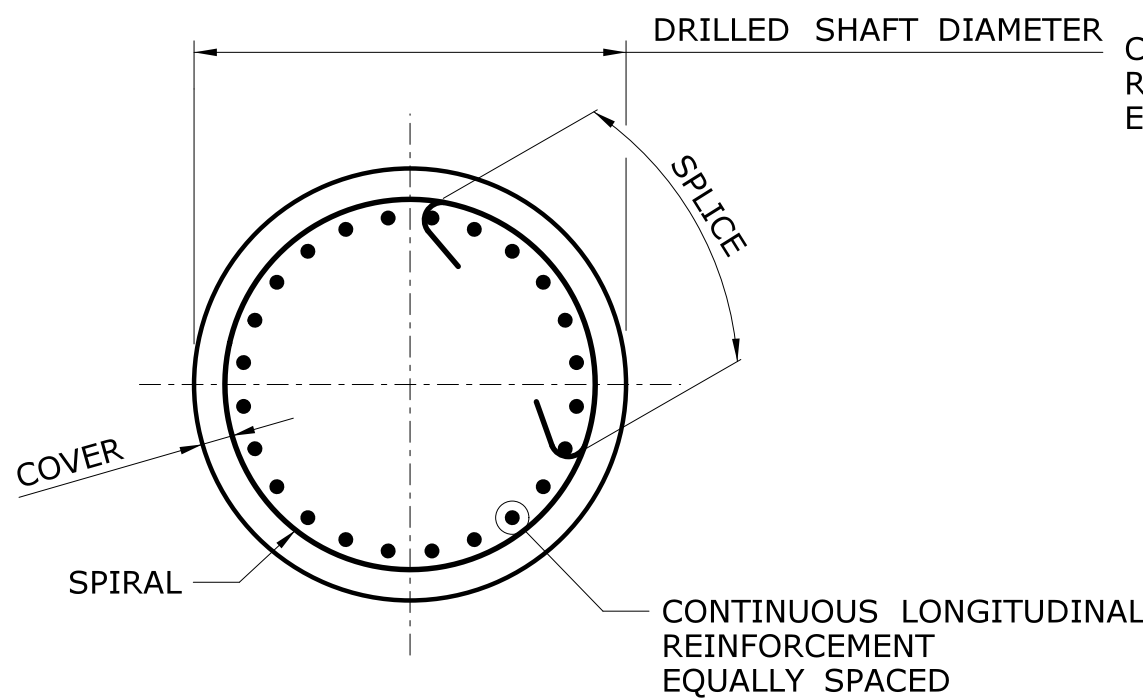
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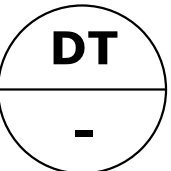
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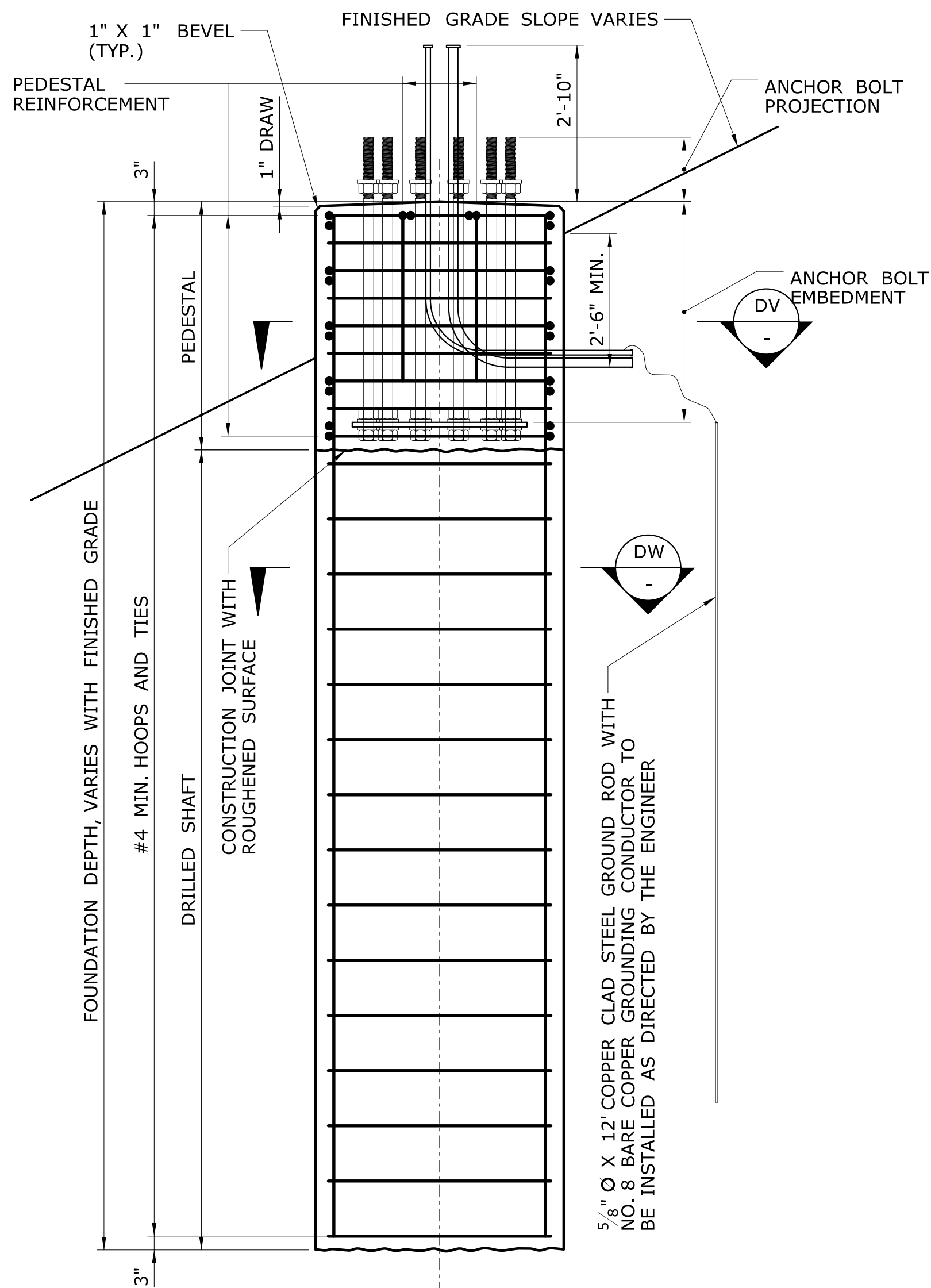
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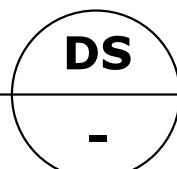
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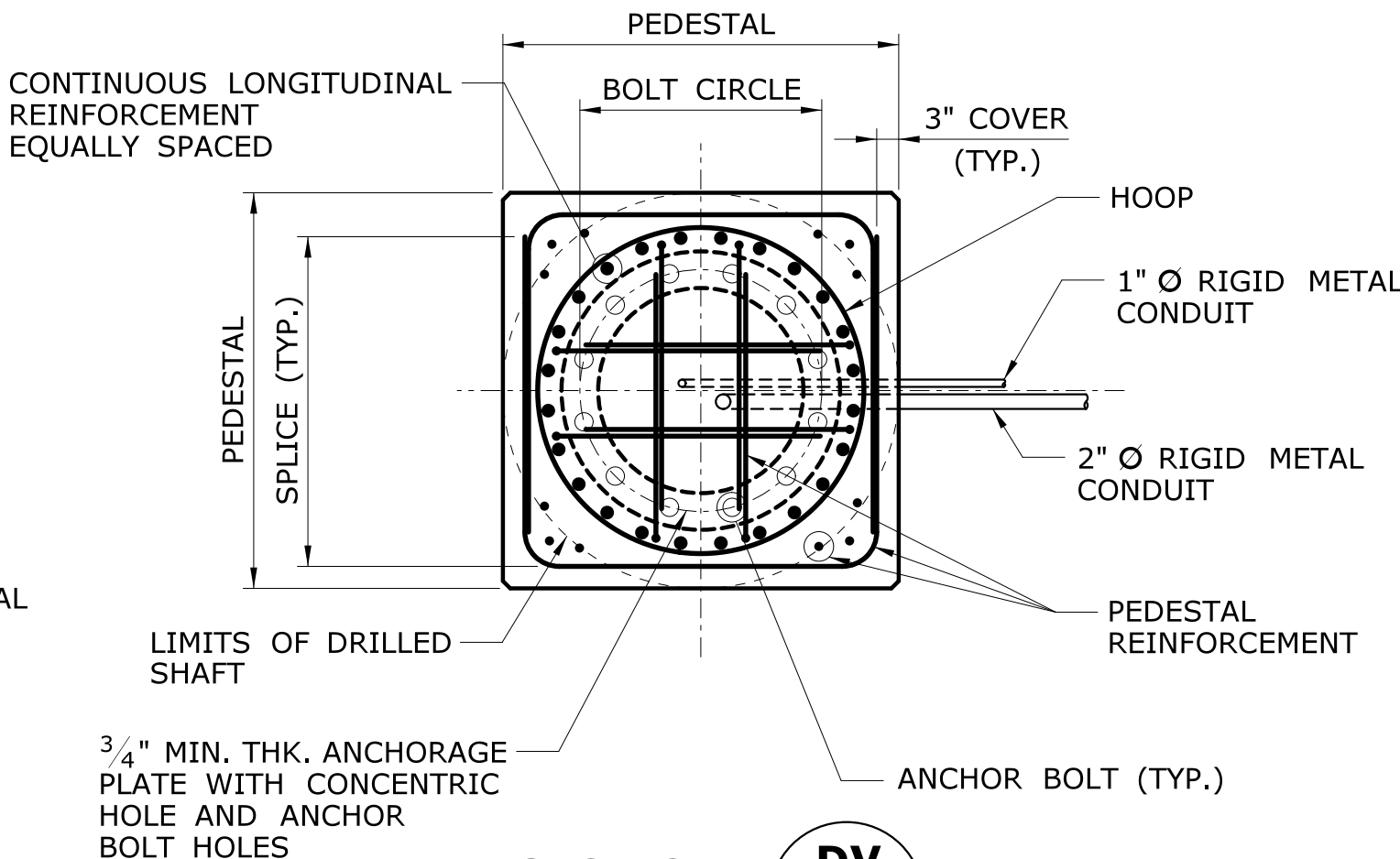
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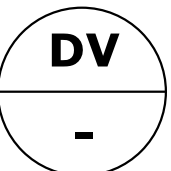
ELEVATION VIEW



SCALE: 1/2" = 1'-0"



SECTION



SCALE: 1/2" = 1'-0"

FOUNDATION NOTES

THE DRILLED SHAFT FOUNDATION SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "DRILLED SHAFT TRAFFIC STRUCTURE FOUNDATION".

FOR THE DESIGN OF THE DRILLED SHAFT FOUNDATION, THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE SUBSURFACE CONDITIONS (CHARACTER OF THE SOIL AND ROCK, PRESENCE OF GROUND WATER, ETC.) IN THE LOCATION OF, ADJACENT TO AND BELOW THE SHAFT EXCAVATION. SOIL BORINGS, IF AVAILABLE, ARE INCLUDED WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR MAY OBTAIN SUBSURFACE INFORMATION AT HIS OWN EXPENSE.

THE DESIGN OF THE FOUNDATION SHALL BE COORDINATED WITH THE SIGN SUPPORT AND THE SUPPORT ANCHORAGE TO ENSURE THAT THE FOUNDATION IS ADEQUATE FOR THE SUPPORT REACTIONS AND TO AVOID CONFLICTS BETWEEN THE EMBEDDED SUPPORT ANCHORAGE AND THE FOUNDATION REINFORCEMENT.

THE SIGN SUPPORT SHALL NOT BE INSTALLED UNTIL BOTH THE PEDESTAL CONCRETE AND SHAFT CONCRETE HAVE REACHED THE DESIGN COMPRESSIVE STRENGTH, f'_c , OF 4,000 PSI AT 28 DAYS.

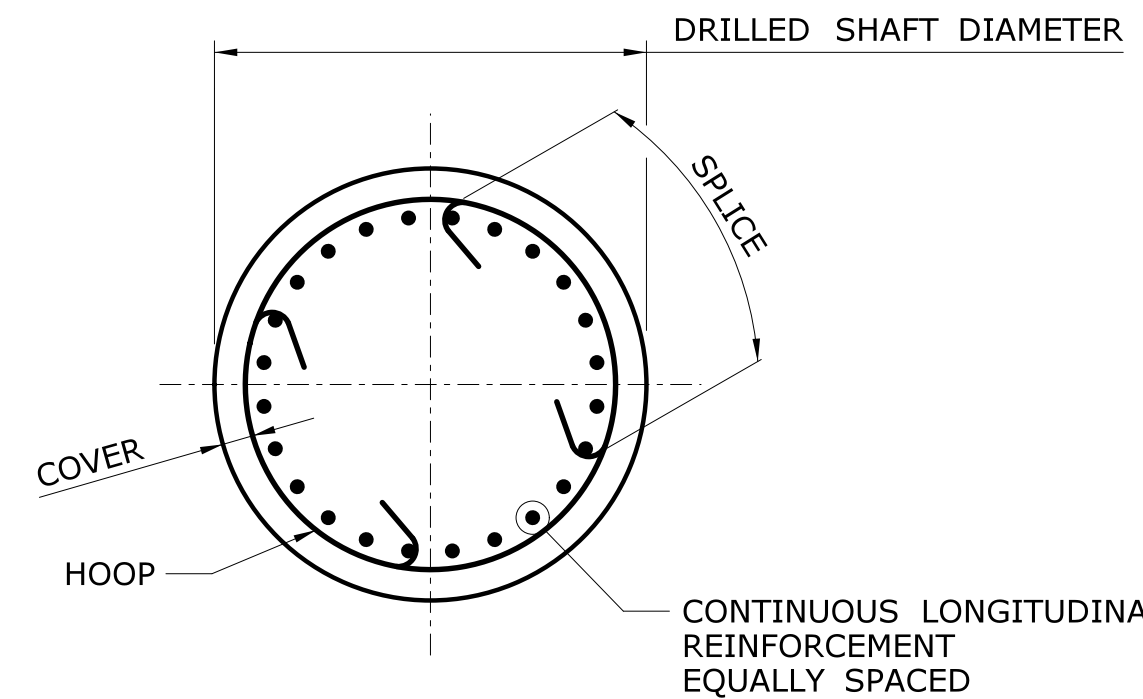
ADDITIONAL RIGID METAL CONDUITS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.

ALL EMPTY RIGID METAL CONDUITS SHALL BE CAPPED.

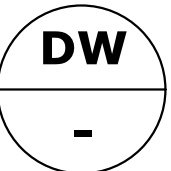
THE RIGID METAL CONDUIT SWEEPS SHALL EXTEND A MINIMUM 2'-0" FROM THE SIDE OF THE FOUNDATION.

THE NO. 8 AWG BARE COPPER CONDUCTOR SHALL BE CONNECTED TO THE EXTERNAL GROUND ROD USING A GROUNDING CLAMP APPROVED FOR DIRECT BURIAL.

THE COST OF FOUNDATION EXCAVATION, REINFORCEMENT AND CONCRETE, INCLUDING THE DESIGN AND FABRICATION, SHALL BE PAID FOR UNDER THE ITEM "DRILLED SHAFT TRAFFIC STRUCTURE FOUNDATION".



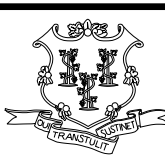
SECTION



SCALE: 1/2" = 1'-0"


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DESIGNER/DRAFTER: MDG
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SCALE AS NOTED

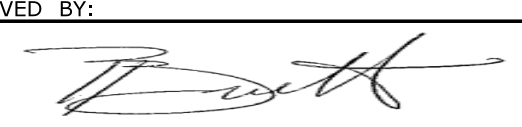


STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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OFFICE OF ENGINEERING

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY: 

PROJECT TITLE: REHABILITATION OF BRIDGE NO. 02368A, ROUTE 2 W.B. OVER I-84, TR 831 & 833
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TOWN: EAST HARTFORD
DRAWING TITLE: DRILLED SHAFT FOUNDATION

PROJECT NO. 42-310
DRAWING NO. S-6
SHEET NO. 4.06.06